HP A5483A HP-PCI ATM/622 Adapter Installation Quick-Reference Card

Product Description

The A5483A HP-PCI ATM/622 Multi-Mode Fiber (MMF) adapter and ATM link software make up a high-performance solution for use in the HP 9000 V-Class, N-Class, and L-Class Enterprise Servers, and the HP VISUALIZE UNIX B1000, C3000, and J5000 Workstations. It has been designed to best meet high-speed requirements and a large number of connections per HP system.

WARNING	**Only qualified Hewlett-Packard personnel can install ATM adapters in the HP 9000 V-Class Enterprise Servers.**

Before Installing the HP-PCI ATM/622 Adapter

Before you install the HP-PCI ATM/622 adapter, do the following steps:

Step 1. Check the Hardware and Software Requirements

Ensure that your hardware and software meet the applicable requirements:

✓ Slot requirements.
✓ Number of adapters that can be installed simultaneously. The *HP ATM Release Note* contains specific information about how many ATM adapters you can install in each type of system.
✓ HP-UX operating system version:

- For V22xx servers: HP-UX 11.0 plus Extension Pack 9905.
- For V2500 servers: HP-UX 11.0 plus Extension Pack 9905.
- For N-Class servers: HP-UX 11.0 plus Extension Pack 9905.
- For L-Class servers: HP-UX 11.0 plus Extension Pack 9905.
- For B1000, C3000, and J5000 workstations: HP-UX 10.20 ACE or 11.0 plus Extension Pack 9905.

See the *HP ATM Release Note* for any patches you might also need to install.

✓ V-Class system firmware version:

- For Model V22xx: Test Station software version 5.0.
- For Model V2500: Test Station software version 1.1.

Step 2. Check for Correct System Documentation

Ensure that you have the appropriate manual for the HP 9000 system you are installing the adapter in. Remember that, as stated earlier, qualified HP personnel must do the installation for V-Class servers.

Step 3. Ensure That You Have the Correct Hardware, Software, and Documentation

Ensure that you have the following items:

✓ One HP-PCI ATM/622 adapter (product number A5483A).

CAUTION	Keep the HP-PCI ATM/622 adapter in its protective antistatic bag until installation. Electronic components can be damaged by even small amounts of static discharge. So, we highly recommend that you use antistatic procedures when handling this or any other computer component. Handle the adapter by the edges only and avoid touching all components and metal parts. Do not store near strong electrostatic, electromagnetic, or radioactive fields.

✓ One grounding wrist strap.
✓ One HP-UX Applications Software CD containing the ATM link software.

Note that the ATM software is *not* locked. So, you do not need a codeword to unlock and install the software.

✓ The *HP ATM Release Note* (hardcopy or on the Instant Information CD).
✓ One *ATM Configuration and Troubleshooting Guide* (hardcopy or on the Instant Information CD).

If any of the above items are missing, please contact your HP representative.

NOTE	When you unpack the adapter and ATM software, keep all original packing materials for storing, transporting, or returning the product if necessary.

Step 4. Record the Product Identification Information

Record the part number and date code of the adapter for future reference. If the adapter needs service in the future, HP service personnel will need the part number and date code. This information is provided on a sticker attached to the adapter. The sticker looks similar to this example:

A5483-60001	USA
	A-*xxxx*

The number in the upper left corner (A5483-60001 in this example) is the printed circuit assembly part number.

The 5-digit alphanumeric string in the lower right corner (A-*xxxx* in this example) is the product version and date code.

Step 5. Check the Switch Specifications

Check the following on the ATM switch:

✓ It supports the MMF 622 Mbit/second interface.

✓ It has SC or ST connectors for use with Multi-Mode Fiber (MMF).

✓ It is UNI 3.0, 3.1, or 4.0 compliant.

Step 6. Ensure That You Have the Necessary Addresses

Ensure that you have the needed addresses, as follows:

✓ For Classical IP installations, you need the ATM adapter's IP address and subnet mask.

✓ For installations where the node will run as an ATM ARP client, you need to know the ATM address of the ATM ARP server it will use.

✓ For installations where you intend to use LAN emulation, you need the following information:

• An IP address and net mask for each emulated LAN.

• The ATM address of the LECS (LAN emulation configuration server).

• The selector ID.

Step 7. Ensure That You Have the Correct Cables

The HP-PCI ATM/622 adapter uses an MMF interface with SC connectors. For connecting to switches with ST connectors, SC-to-ST duplex adapters are necessary. Check that you have the following cables, as applicable:

✓ SC-to-SC cable.

✓ SC-to-ST cable (duplex adapter).

✓ SC loopback connector (for troubleshooting).

Installing the HP-PCI ATM/622 Adapter

WARNING	**Electric shock hazard. Power off the system and disconnect it from the electricity supply before opening the system or accessing the slots. Failure to do this can result in an electrical shock hazard and possible damage to the adapter or system.**

For V-Class servers, qualified HP personnel must do the installation. For all other HP 9000 systems, follow the steps in the system documentation.

Be sure to follow antistatic precautions to help prevent static buildup that might cause damage.

Use an antistatic mat (or a static-controlled workstation) and a grounding wrist strap to channel your own static charge safely to ground.

CAUTION	Some of the components of the adapter are susceptible to damage by static discharge. Degraded performance, shortened product life, or loss of operation can result from not observing precautions.

LED Colors and Meanings

The HP-PCI ATM/622 adapter has two LEDs: R (receive) and T (transmit). The table below explains their colors and meanings.

LED	Color	Meaning
R	None ("off")	A receive cable is correctly attached to the adapter.
	Solid amber	The adapter is seated correctly in the system, but no receive cable is attached to the adapter. NOTE: In a back-to-back configuration, a receive cable is attached to the adapter, but the *other* system performed an `atmstop`.
	Flashing green	Data is being received.
T	None ("off")	This LED is "off" both when a transmit cable is correctly attached to the adapter *and* when no transmit cable is attached.
	Flashing green	Data is being transmitted.

DECLARATION OF CONFORMITY
according to ISO/IEC Guide 22 and EN 45014

Manufacturer's Name: Hewlett-Packard Company
Internet & Applications Systems Division

Manufacturer's Address: 8000 Foothills Blvd.
Roseville, CA 95747
USA

declares, that the product

    Product Name: HP PCI ATM Adapters

    Model Number(s): A5483A (A5483-60001 HP-PCI ATM/622 MMF Adapter)
A5513A (A5513-60001 HP-PCI ATM/155 MMF Adapter)
A5515A (A5515-60001 HP-PCI ATM/155 UTP Cat5 Adapter)

    Product Options: All

conforms to the following Product Specifications:

    Safety: IEC 950:1991 + A1, A2, A3, A4 / EN 60950:1992 + A1, A2, A3, A4, A11
             GB 4943-1995
             IEC 825-1:1993 / EN 60825-1:1994 + A11, LED Class 1
             EN 60825-2:1994

    EMC: CISPR 22:1993 / EN 55022:1994 - Class A[1]
           GB 9254-1988
           EN 50082-1:1992
               IEC 801-2:1991 / prEN 55024-2:1992, 4 kV CD, 8 kV AD
               IEC 801-3:1984 / prEN 55024-3:1991, 3 V/m
               IEC 801-4:1988 / prEN 55024-4:1993, 0.5 kV Signal Lines
                                           1 kV Power Lines

Supplementary Information:

The product herewith complies with the requirements of the EMC Directive 89/336/EEC and carries the CE marking accordingly.

1) The Product was tested in a typical configuration with Hewlett-Packard information technology equipment.

Roseville, CA, March 1, 1999   Frank D. Dembski Jr., Quality Manager

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Safety Information

WARNING	All inputs/outputs are Safety Extra Low Voltage (SELV) circuits.

CAUTION	The hardware contains electronic components that can be damaged by static electricity. To avoid damage, follow these guidelines:

- Store the hardware in its conductive plastic bag.
- If possible, work in a static-free area.
- Handle circuit boards by the edges only.

Do not touch electronic components or electrical traces. We strongly recommend that you use a grounding wrist strap that is connected to the metallic chassis of the host computer. If you do not have a wrist strap, touch the chassis before handling adapters and frequently thereafter to equalize any static charge.

LED Safety Information

The optic module provided in the HP A5483A HP-PCI ATM/622 adapter meets LED AEL Class 1 requirements per EN 60825-1:1994 (+ A11) and EN 60825-2:1994.

Wavelength: 1300 nm.

Regulatory Information

Optic Module

The optic module provided in the HP A5483A HP-PCI ATM/622 adapter conforms to the ITU-T recommendation G.957 cat I-1 or I-4.

For the United States

Federal Communications Commission (FCC) Radio Frequency Interference Statement.

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference and (2) this device must accept any interference received, including interference that might cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of the equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Hewlett-Packard's system verification tests were conducted with HP-supported peripheral devices and cables, such as those received with the system. Changes or modifications to this equipment not expressly approved by Hewlett-Packard could void the user's authority to operate the equipment.

For Canada

For Canadian Regulations ICES-003.

Complies with Canadian Electromagnetic compatibility (EMC) Class A requirements.

Conforme à Classe A des normes canadiennes de compatibilité électromagnétique (CEM).

For Europe

This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.